

Special Issue

Linear and Nonlinear Electric Circuits: Theoretical Analysis and Applications

Message from the Guest Editors

Electric circuit theory provides essential notions for electrical engineering. By knowing and understanding the basic theory of electrical phenomena, the operation of the components, the theorems connecting the electrical quantities and the particular phenomena that occur in different regimes, the operation of electrical and electronic devices, automation systems, and power supply networks can be better understood.

Therefore, electrical circuits, whether linear or nonlinear, with lumped or distributed parameters, are found in many engineering subdomains: electrical and electronic engineering (principally), power engineering, transportation engineering, telecommunications, automation and hardware systems, etc. On the other hand, the relations between electrical quantities, transposed into systems of algebraic or differential equations, cannot be solved correctly without the involvement of specialists in mathematics. So the issues of electrical circuits can be divided into two main directions, including, but not limited to, the following: Theoretical aspects regarding linear and nonlinear electrical circuits and Applications of electrical circuits.

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